

# BILT-WELL

AWNING UNITS

by **CARADCO**



HEIMBACH LUMBER CO.  
1400 LONDON ROAD  
DULUTH, MINN.

**SWING-OUT AWNING AND CASEMENT UNITS  
SWING-IN HOPPER UNITS  
FIXED AND PICTURE UNITS**





# BILT-WELL

## AWNING and AWNING VUE WINDOWS

are manufactured under one or more of the following Patents and Patents Pending:

No. 2,918,710 • 2,759,746 • 2,716,784



### THE NEW BILT-WELL Awning Vue

A fine quality window for homes in all price ranges . . . an exceptionally good value "dollar wise" . . . offers excellent visibility, natural light, and ventilation . . . completely weather-stripped for maximum protection no matter what the weather may be like . . . unlimited in adaptability for all standard types of wall construction.

The New BILT-WELL Awning Vue consists of a picture sash over an awning window. The Picture Sash is stationary and the Awning Sash is operative. The Awning Sash can be operated with any of the operators illustrated on page 6.

Manufactured of clear kiln-dried Ponderosa Pine, vacuum pressure preservative treated in accordance with the National Woodwork Manufacturers Association, U. S. Dept. of Commerce, Commercial Standards CS-204-59.

QUALITY FABRICATOR  APPROVED NO. 501  
American WOOD WINDOW Institute  
CONFORMS—UNITED STATES COM. STAND. 204-59

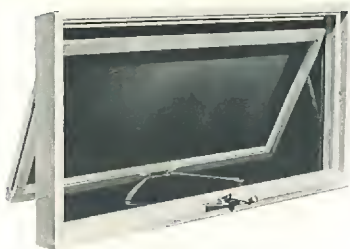
WATER REPELLENT PRESERVATIVE  
TIC NO. 130  
APPROVED  
NATL. WOODWORK MFRS. ASSN.



# BILT-WELL

## AWNING WINDOWS

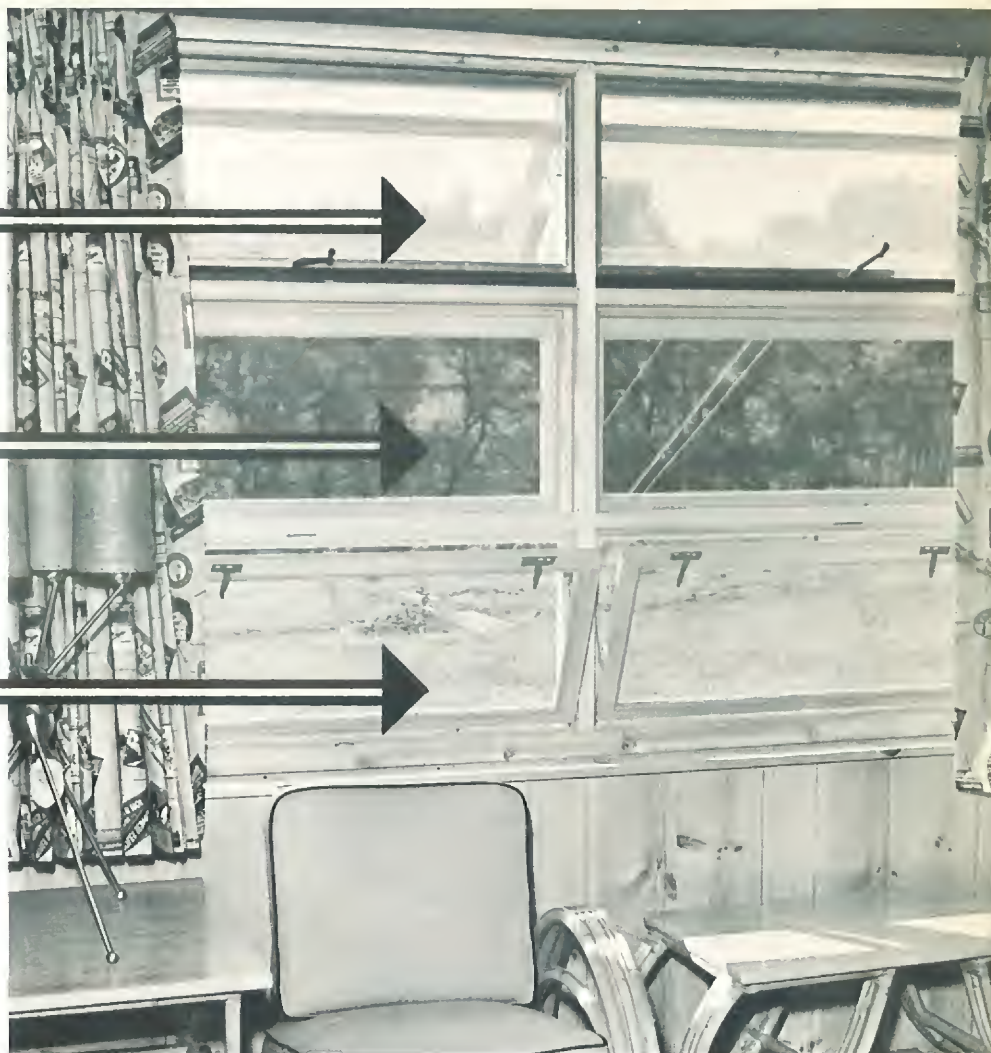
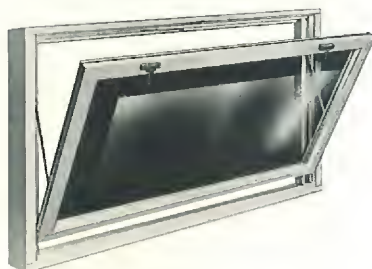
### AWNING UNIT



### FIXED UNIT



### HOPPER UNIT

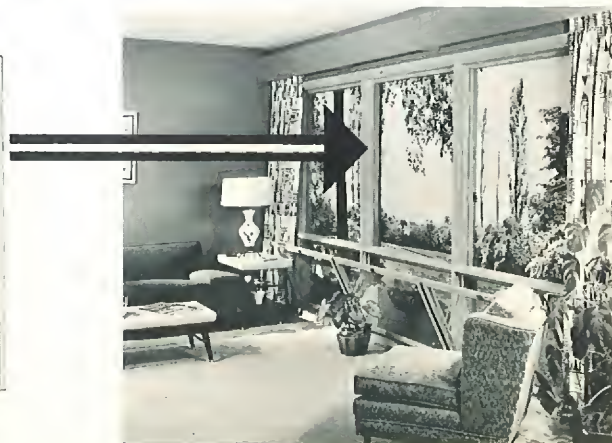


**BILT-WELL AWNING UNITS  
CAN BE COMBINED  
IN NUMEROUS WAYS**

... installed to flank picture sash ...  
used as hopper vent under fixed or  
picture sash or placed on end as  
casements ... There are many ar-  
rangements possible ... excellent  
adaptability to any standard type  
wall—solid masonry, brick veneer and  
frame construction.

BILT-WELL Picture Unit, illustrated at  
the right is available in six standard  
sizes corresponding to the height of  
two awning units stacked one over  
the other, and in identical widths of  
awning units.

### PICTURE UNIT



**Popular Installation—Picture Unit over Hopper**



# **BILT-WELL** *features are Outstanding*

Nowhere else will you find the convenience and beauty that are inherent in famous BILT-WELL Awning Windows.

The wide selection of window sizes and operating mechanisms make BILT-WELL Awning Windows the most complete line available . . . assuring you of the very best windows to fit any modern design. Each and every part of these economical units has been thoughtfully designed, carefully developed, and scientifically tested to assure that you receive the very finest that modern methods and procedures can produce.

For added benefit, all BILT-WELL Awning Windows

are vacuum-pressure treated with a water-repellent preservative in accordance with National Woodwork Manufacturers Association Standards, U. S. Dept. of Commerce, Commercial Standards CS 204-59, and has the AWWI Seal of Approval.

Tested for Weathertightness. Infiltration tests by an accepted testing laboratory are, almost twice as weathertight as required by FHA Minimum Property Standards and Commercial Standards CS 204-59. Based on an overall sash crack perimeter of 11.89 feet, the air infiltration was determined to be 0.31 cubic feet per minute, per linear foot of sash crack perimeter.



**1** Release the detach device on the hinge assembly.

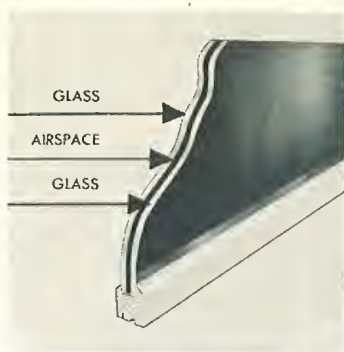
**2** Lower sash until released from the channel.

**3** Remove sash from the frame.

BILT-WELL Removable Hinges allow easy removal of the sash for painting . . . for reducing weight of assembled groupings in handling and installing. This removal of sash is done simply and easily without tools and is accomplished by sliding a detached shoe up the hardware linkage to slip out the sash and engaging hardware from the channel. In addition to this removable feature, the hinges are sturdy as a result of a swivel plate being incorporated right in the channel. In this way the weight of the sash is borne by four

screws in the swivel plate. Other fine features are incorporated in the hinge. The hinges are fully concealed when the sash is closed and they are therefore, prowler proof. All moving joints of the hinges have brass or nylon bearings to insure long, trouble-free operation; all such parts are lubricated at the factory. The metal used in the hinges has a rust resisting finish which insures against rust and corrosion. The hinge channels are self-cleaning to prevent binding.





### INSULATING GLASS

All BILT-WELL Awning Window Units may be specified "Glazed" (I.G.) insulating glass. Unless otherwise specified, units will be furnished clamp glazed, (SS) single strength glass, except top portion of BILT-WELL Awning Vue Units No. 3965, which is furnished with double strength (DS) glass.



The task of cleaning the inside and outside glass of BILT-WELL Awning Windows is simple. They open to the position preferred to avoid reaching. BILT-WELL Awning Windows provide ideal inside ventilation control to capture prevailing breezes without creating a draft.



### REGLAZING IS SIMPLE

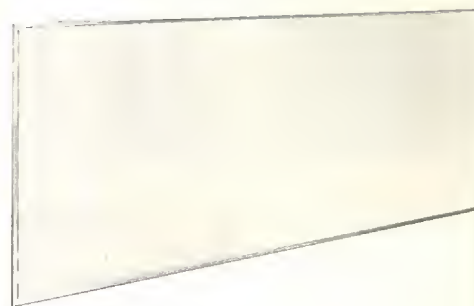
In sash with SS glass, a special groove has been machined into one side of the wood surrounding the glass. In the event of glass breakage, cutting along this groove with a knife will remove the wood moulding which can be replaced after glass has been replaced.



### WEATHERSTRIPPING AND HINGING

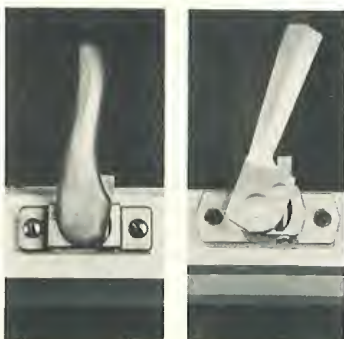
Anodized aluminum weatherstrip is rolled in (factory installed) top and bottom edges of sash, and rolled in the sides of the frame to insure a weathertight seal.

Positive, trouble-free action, one piece hinge with special sash detach device permits easy, quick sash "take out" for painting, etc.



### AWNING STORM PANEL

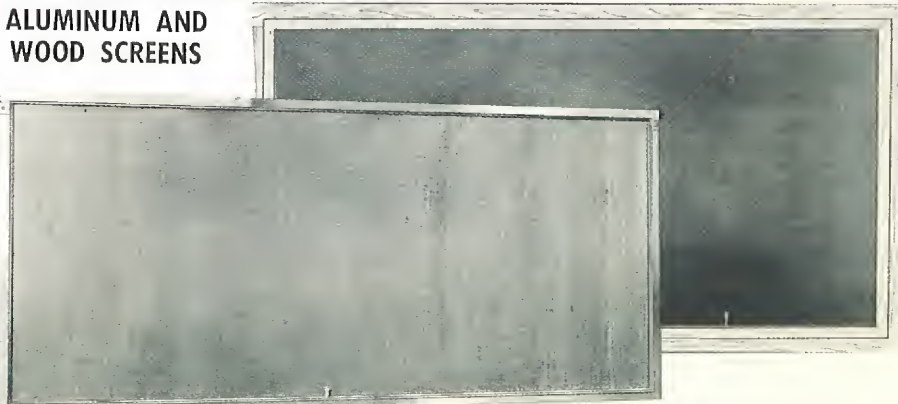
For units glazed with SS or DS glass, a glass with an aluminum frame bonded to the glass forms the Awning Storm Panel, furnished with fasteners for easy installation.



### LOCKING HANDLE ACCESSORY

A choice of a metallic pigmented nylon or a Gold-Tone finish metal Locking Handle is offered. Both kinds of material have been thoroughly tested for the purpose. Either Locking Handle is used for all installations—Awning, Hopper, and/or Casement.

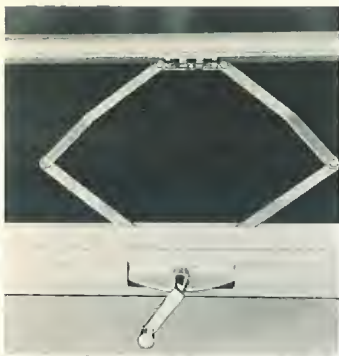
### ALUMINUM AND WOOD SCREENS



### A CHOICE OF WOOD OR METAL SCREENS

Wood Screens: Ponderosa Pine, water-repellent preservative treated. Metal Screens: Gold-Tone Aluminum frame. Wood and Metal Screens: Alclad Aluminum wire cloth, gun-metal finish, 18/14 wire mesh, including locking bolts.

## AWNING WINDOW OPERATORS



### GEAR OPERATOR ACCESSORY

Contemporary, attractive, durable operator with Gold-tone finish. Designed with crank handle at a convenient angle for smooth, easy operation. A "detach device" releases sash from operator for easy washing.



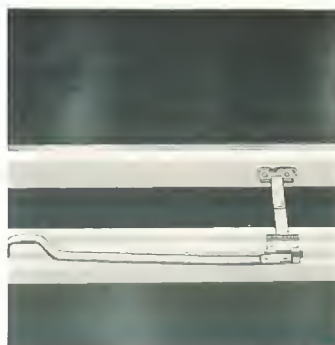
### RIGID BAR OPERATOR ACCESSORY

This simple, practical operator facilitates easy opening and closing of sash without removing the screen. Screen is removable and the Bar Operator can be detached from the frame by lifting upward.



### LEVER OPERATOR ACCESSORY

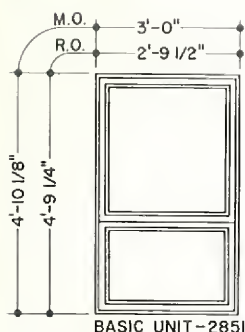
An easy-to-operate scissors type linkage, operated by a lever handle with Gold-tone finish. The arm travels 180 degrees from fully closed to fully open. A "detach device" releases sash from operator for easy washing.



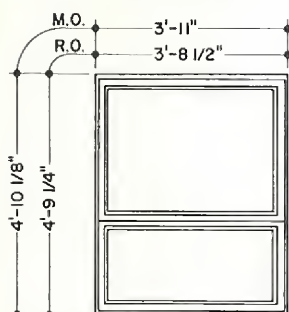
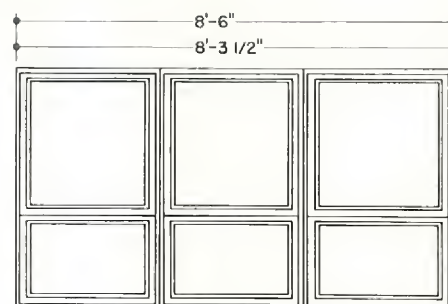
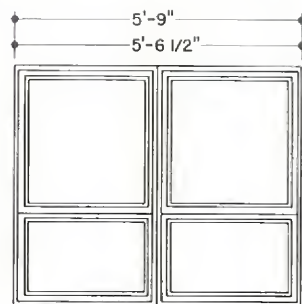
### JOINTED BAR OPERATOR ACCESSORY

Sectional jointed bar folds back out-of-the-way against the frame when sash is partially open. Sash can be fully opened to entire length of bar and detached for washing glass or painting sash.

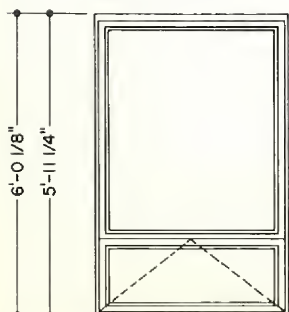
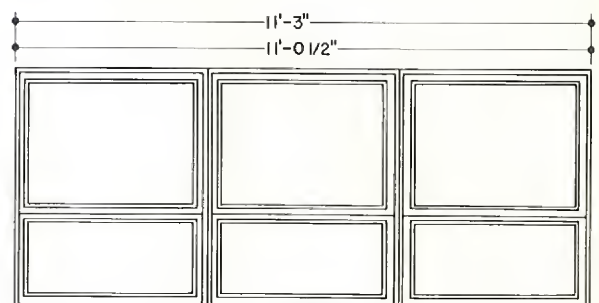
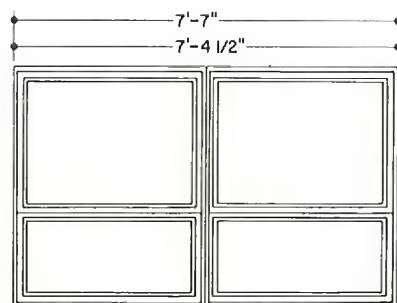
## AWNING-VUE COMBINATIONS



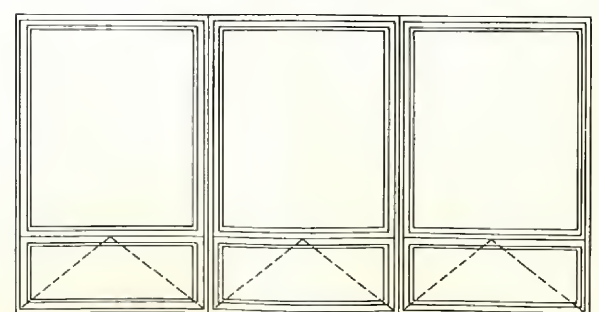
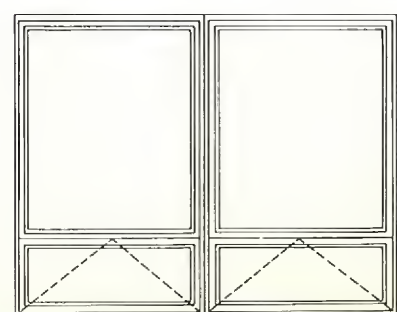
BASIC UNIT-2851



BASIC UNIT-3951



BASIC UNIT-3965

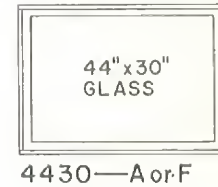
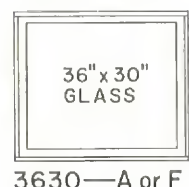
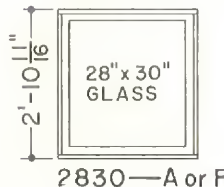
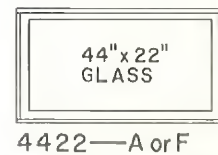
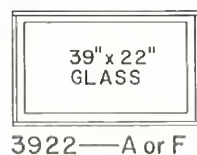
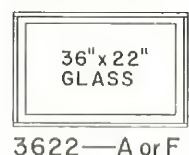
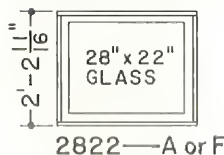
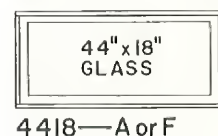
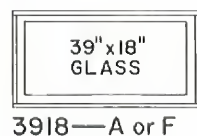
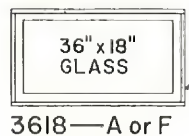
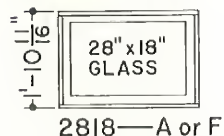
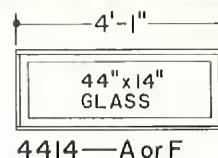
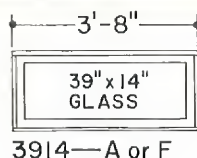
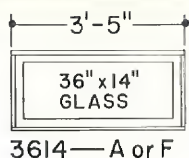
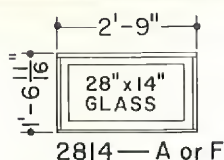




# BILT-WELL AWNING WINDOW

## BASIC UNITS

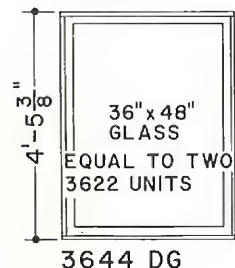
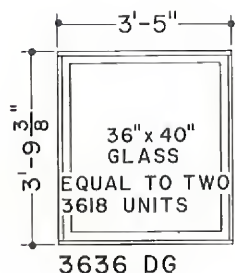
"A" unit is basic awning window unit with weatherstrip and hinges only stalled. Accessory hardware available for "A" unit is jointed bar operator, rigid bar operator, gear operator, lever operator, nylon locking handle, or Gold-tone Metal Locking Handle. "F" units are fixed or non-operative weatherstripped units. When ordering screens and operators for "A" Units, specify Wood or Gold-tone Aluminum Screens and type of operator, if desired.



## STOCK UNITS

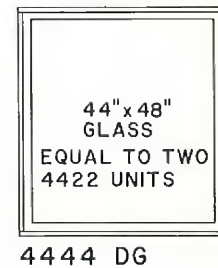
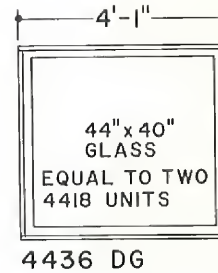
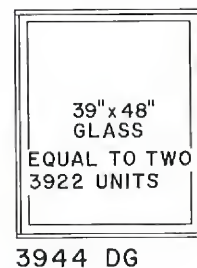
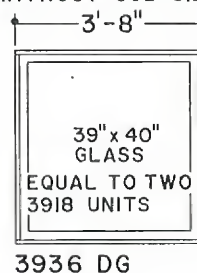
### BILT-WELL AWNING WINDOW PICTURE UNITS

BILT-WELL Awning Window Picture Unit sizes are shown in this section. Overall measurements of units do not, however, include sub-sill. Awning Window Picture Units are supplied completely assembled, and glazed with (IG) insulating glass, or (D.S.) double strength glass.



## FIXED PICTURE UNITS

(WITHOUT SUB-SILL)



FIXED PICTURE UNITS are furnished glazed with 1/2" double insulating glass. Also available single glazed with storm sash

### NOTE

Dimensions shown are over-all unit sizes and DO NOT include outside casings or sub-sill.

## UNITS ARE CARTON PACKED

BILT-WELL Awning Windows, available in a wide range of popular stock sizes, are precision machined by master craftsmen from clear, kiln-dried Ponderosa Pine and water-repellent preservative treated after machining units are furnished completely assembled, carton packaged for easy handling.



# COMBINATIONS

	GLASS WIDTH	1 UNIT WIDE	2 UNITS WIDE	3 UNITS WIDE
28"	MASONRY OPG. 3'-0"	M. O. 5'-9"	M. O. 8'-6"	
	ROUGH " 2'-9 1/2"	R. O. 5'-6 1/2"	R. O. 8'-3 1/2"	
36"	MASONRY " 3'-8"	M. O. 7'-1"	M. O. 10'-6"	
	ROUGH " 3'-5 1/2"	R. O. 6'-10 1/2"	R. O. 10'-3 1/2"	
39"	MASONRY OPG. 3'-11"	M. O. 7'-7"	M. O. 11'-3"	
	ROUGH " 3'-8 1/2"	R. O. 7'-4 1/2"	R. O. 11'-0 1/2"	
44"	MASONRY " 4'-4"	M. O. 8'-5"	M. O. 12'-6"	
	ROUGH " 4'-1 1/2"	R. O. 8'-2 1/2"	R. O. 12'-3 1/2"	
1 UNIT HIGH	M. O. 1'-9 3/4"			
	R. O. 1'-8 3/4"			
	M. O. 2'-1 1/4"			
	R. O. 2'-0 3/4"			
	M. O. 2'-5 1/4"			
	R. O. 2'-4 3/4"			
2 UNITS HIGH	M. O. 3'-4 3/4"			
	R. O. 3'-3 1/2"			
	M. O. 4'-0 3/4"			
	R. O. 3'-11 1/2"			
	M. O. 4'-8 3/4"			
	R. O. 4'-7 1/2"			
3 UNITS HIGH	MASONRY OPENING 4'-11 1/4"			
	ROUGH " 4'-10 1/4"			
	MASONRY " 5'-11 1/4"			
	ROUGH " 5'-10 1/4"			
	MASONRY " 6'-11 1/4"			
	ROUGH " 6'-10 1/4"			
GLASS HEIGHT	14"			
	18"			
	22"			

\*FIXED PICTURE UNIT WITH HOPPER BELOW—MAY BE COMBINED WITH TRIPLE STACKED.

FOR EACH ADDITIONAL UNIT IN HEIGHT, ADD FOR 14" GLASS 1-6 3/4", 18" GLASS 1-10 1/4", 22" GLASS 2-2 3/4"

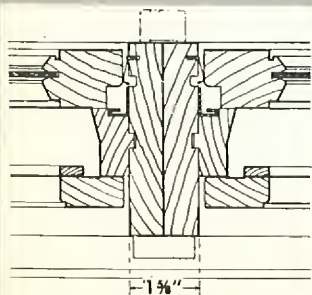
" " " " " " WIDTH, " " 28" " 2'-9", 36" " 3'-5", 39" " 3'-8" 44" GLASS 4'-1"

TO DETERMINE TRIM OPENINGS—SUBTRACT 3/4" FROM R.O. HEIGHT —2 1/4" FROM R.O. WIDTH

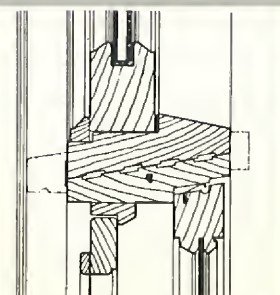
\*NOTE: FIXED PICTURE UNITS ARE MADE IN 3 WIDTHS (36, 39 AND 44" GLASS) AND 2 HEIGHTS EQUAL TO TWO UNITS 18" OR 22" STACKED

## SECTIONAL DETAILS

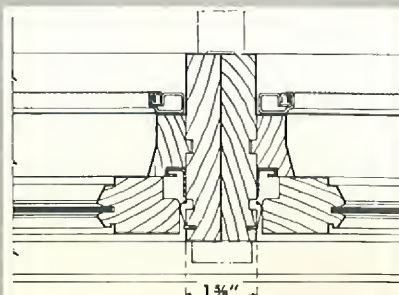
for joining two or more units



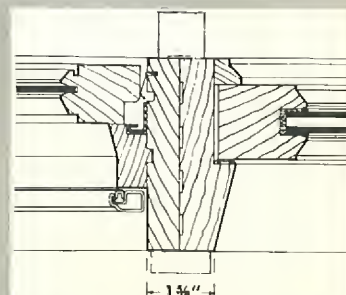
PLAN-MULL SECTION CC  
AWNING OR FIXED



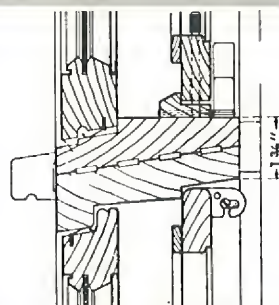
TRANSOM SECTION DD  
PICTURE UNIT OVER HOPPER



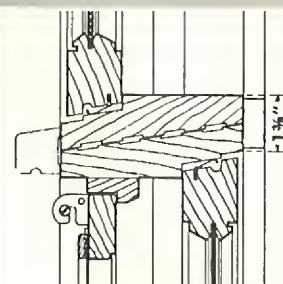
PLAN-MULL SECTION  
E E HOPPER — HOPPER



PLAN-MULL SECTION F-F AWNING  
AND FIXED PICTURE UNIT



TRANSOM SECTION AA

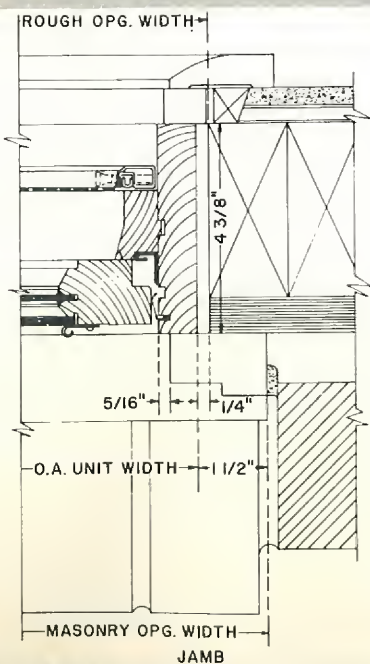
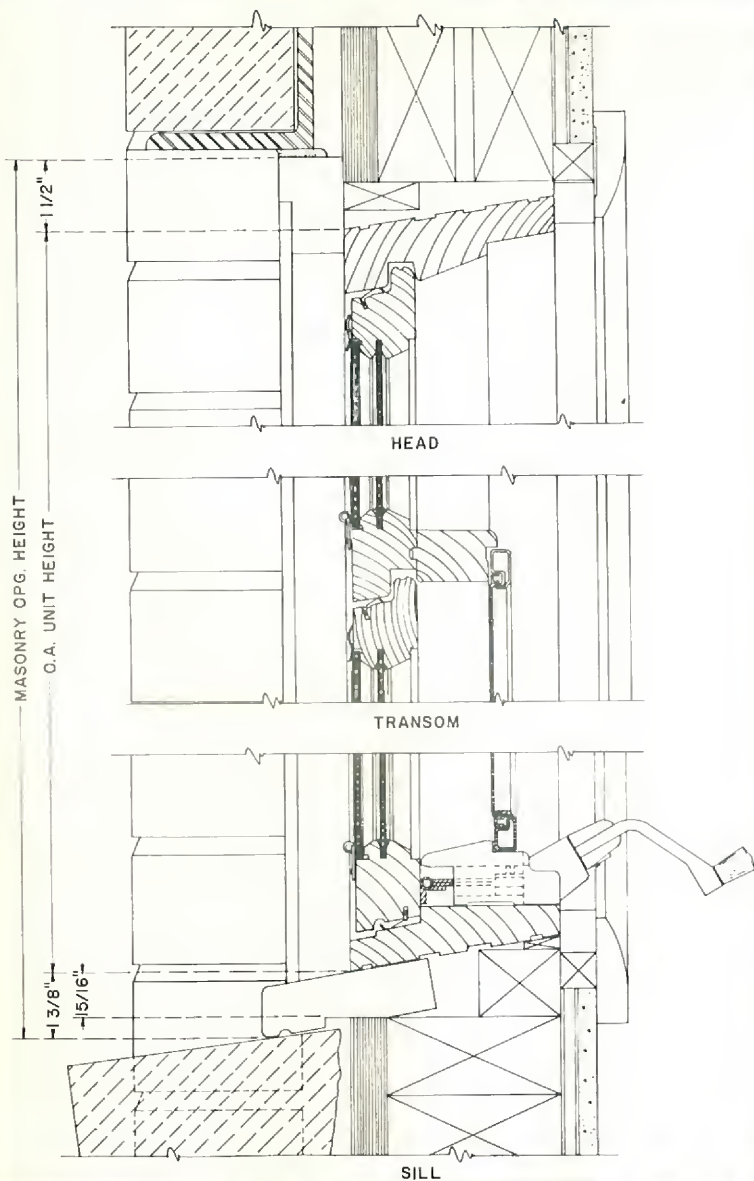


TRANSOM SECTION BB AWNING  
OR FIXED SASH OVER HOPPER

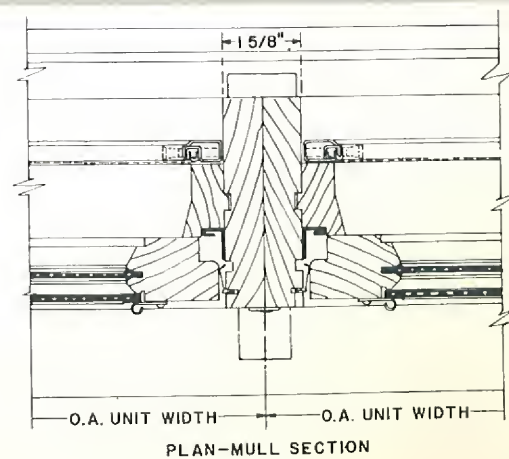
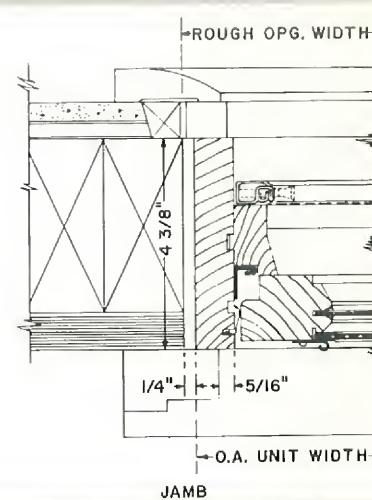
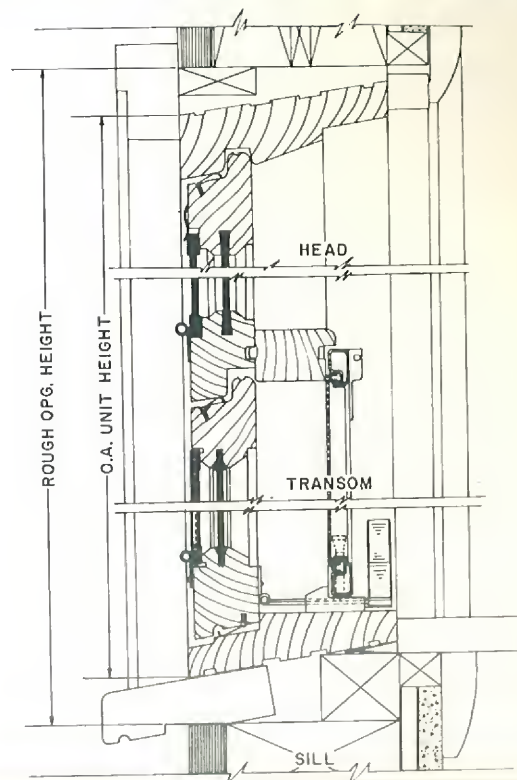


# SECTIONAL DETAILS OF AWNING-VUE WINDOWS

## BRICK VENEER WALL



## FRAME WALL

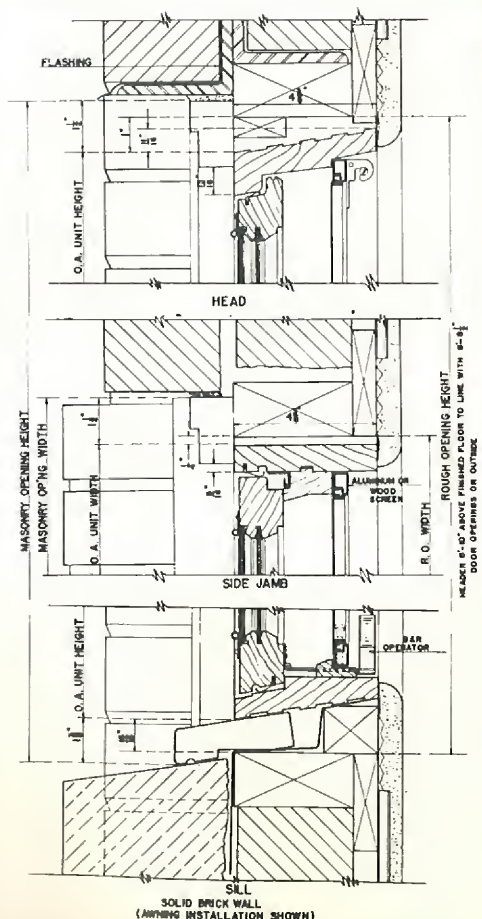
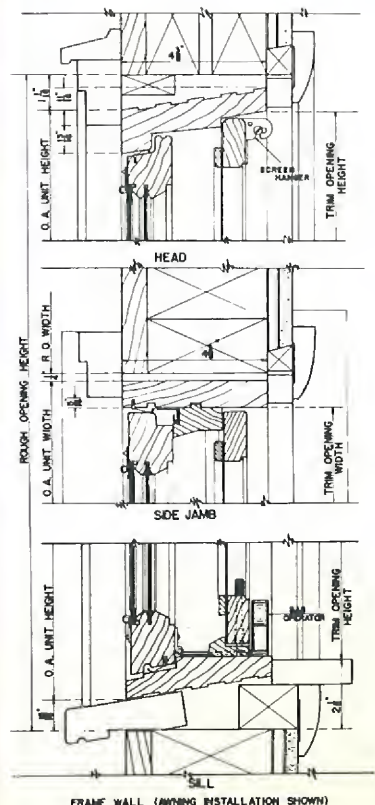
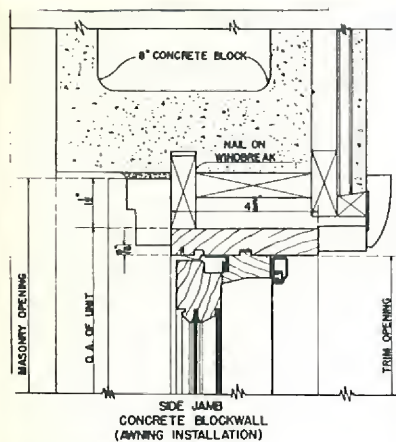
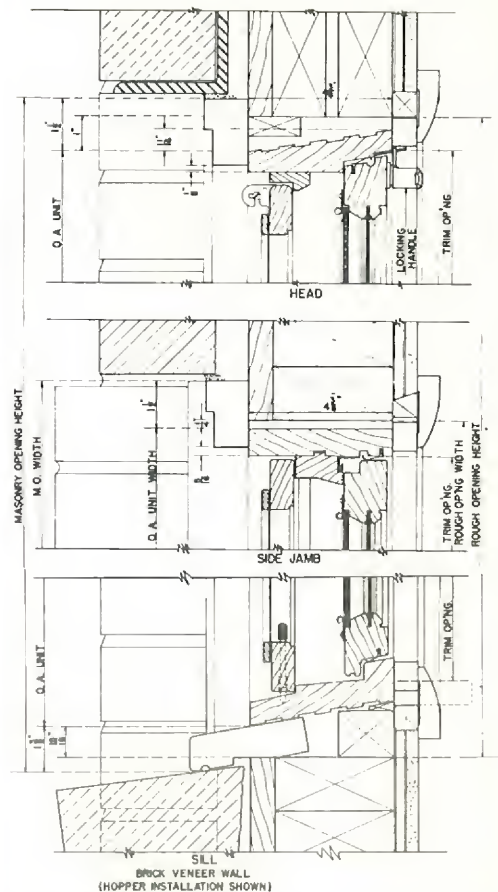
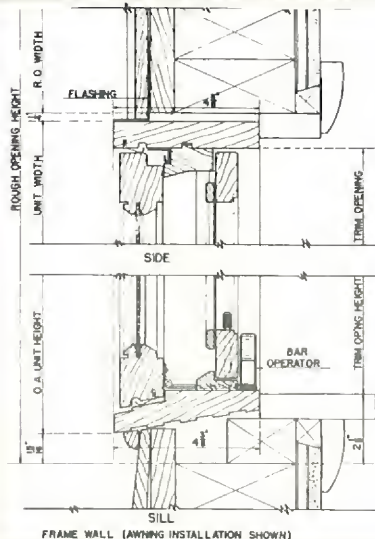
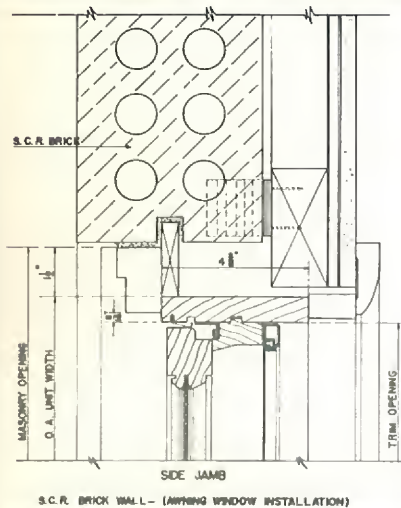




# BILT-WELL

## AWNING WINDOWS

are adaptable to all  
standard types of wall  
construction



Casing, Sub-sill, Ex-Jamb, etc., for BILT-WELL Awning Windows are shown on page 12. These are accessories and therefore unless ordered are not furnished.



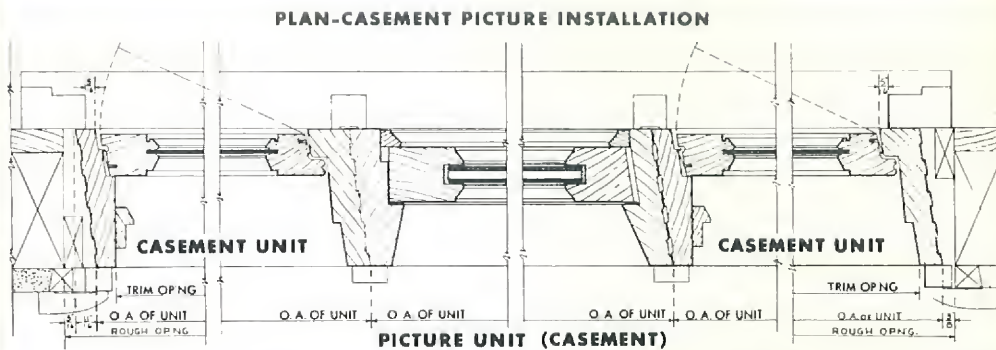
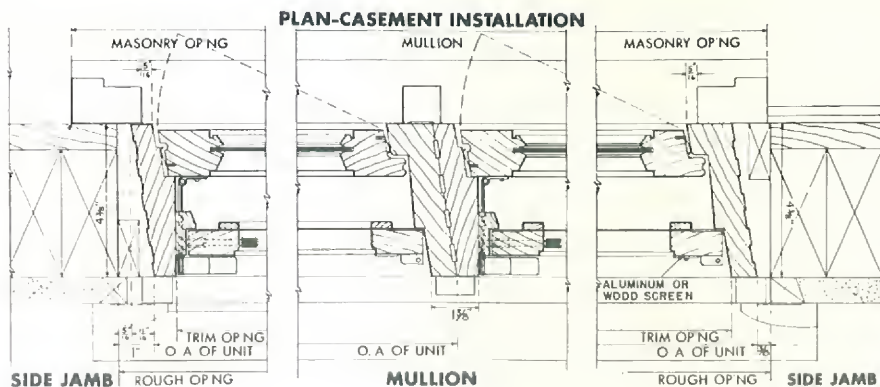
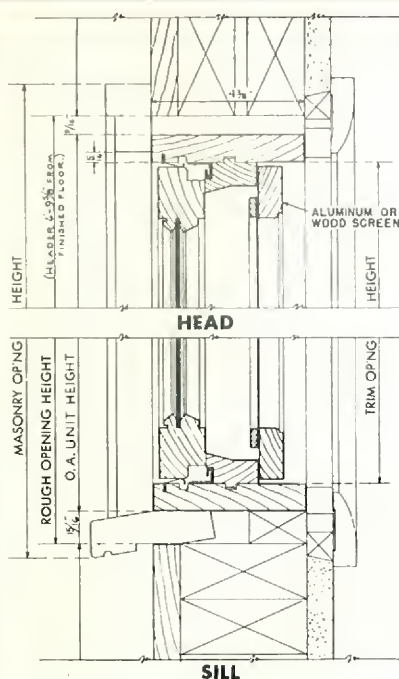
# BILT-WELL

## AWNING WINDOWS AS CASEMENTS

The "A" unit placed on end may be used as a casement window, opening out. Either the gear operator or lever operator accessory is preferred for casement use as sash can be operated without removing the screen.

NOTE: The 3630, 3930, and 4430 should NOT be used as casements.

It is recommended that bar operated, gear operated, and lever operated casement units in multiple combinations be assembled to swing all left or all right to maintain uniform narrow mulls. Locking Handle casement units must all hinge from left hand side as viewed from outside to place locking handle in proper operating position.



### REQUIRED WALL OPENINGS FOR INSTALLATION CASEMENT UNITS

GLASS WIDTH	1 UNIT WIDE	2 UNITS WIDE	EACH ADDITIONAL UNIT WIDE—ADD
14"	MASONRY OP'G. 1'-9 3/4"	M. O. — 3'-4 1/4"	M. O. — 1'-6 3/4"
	ROUGH " 1'-8 1/4"	R. O. — 3'-2 3/4"	R. O. — "
18"	MASONRY " 2'-1 3/4"	M. O. — 4'-0 1/4"	M. O. — 1'-10 3/4"
	ROUGH " 2'-0 1/4"	R. O. — 3'-10 3/4"	R. O. — "
22"	MASONRY " 2'-5 3/4"	M. O. — 4'-8 1/4"	M. O. — 2'-2 3/4"
	ROUGH " 2'-4 1/4"	R. O. — 4'-6 3/4"	R. O. — "

GLASS HEIGHT	CASEMENT UNIT HEIGHTS		
28"	MASONRY OP'G. 2'-11 1/4"		
	ROUGH " 2'-10 1/2"		
36"	MASONRY OP'G. 3'-7 7/8"		
	ROUGH " 3'-6 1/2"		
39"	MASONRY OP'G. 3'-10 1/4"		
	ROUGH " 3'-9 1/2"		
44"	MASONRY OP'G. 4'-3 3/4"		
	ROUGH " 4'-2 1/2"		

HEIGHT MEASUREMENTS INCLUDE SUB-SILL  
TO DETERMINE TRIM OPENINGS SUBTRACT 2 1/4"  
FROM R. O. WIDTH, 3 1/4" FROM R. O. HEIGHT.

### CASEMENT-PICTURE UNITS — WIDTHS —

SINGLE UNIT	PICTURE UNIT	SINGLE UNIT WITH CASEMENT EACH SIDE		
		3614-2914 OR 4414	3618-2918 OR 4418	3622-2922 OR 4422
MASONRY O. 4'-0"	3636DG	M. O. 7'-1 1/2"	M. O. 7'-9 1/2"	M. O. 8'-5 1/2"
ROUGH O. 3'-10 3/4"	3936DG	R. O. 7'-0 1/4"	R. O. 7'-8 1/4"	R. O. 8'-4 1/4"
MASONRY O. 4'-8"	3644DG	M. O. 7'-9 1/2"	M. O. 8'-5 1/2"	M. O. 9'-1 1/2"
ROUGH O. 4'-6 3/4"	3944DG	R. O. 7'-8 1/4"	R. O. 8'-4 1/4"	R. O. 9'-0 1/4"

### HEIGHTS

3636DG	MASONRY OP'G.	3'-7 7/8"
OR 3644DG	ROUGH "	3'-6 1/2"
3936DG	MASONRY OP'G.	3'-10 1/4"
OR 3944DG	ROUGH "	3'-9 1/2"
4436DG	MASONRY OP'G.	4'-3 3/4"
OR 4444DG	ROUGH "	4'-2 1/2"

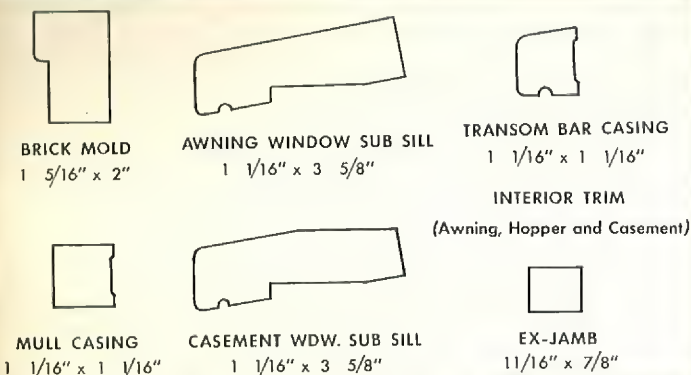
SINGLE UNIT WITH CASEMENT EACH SIDE



HEIGHT MEASUREMENTS INCLUDE SUB-SILL  
TO DETERMINE TRIM OPENINGS—SUBTRACT 2 1/4"  
FROM R. O. WIDTH, 3 1/4" FROM R. O. HEIGHT.



## ACCESSORY WOOD PARTS FOR AWNING, HOPPER, FIXED AND CASEMENT UNITS



**NOTE:** All exterior trim pieces are water-repellent preservative treated in accordance with specifications of the National Woodworking Manufacturers Association. When cutting more than 3/4" from the end of exterior trim pieces, it is recommended that ends be dipped in a water-repellent solution.

**BRICK MOLD**—In random lengths for all unit groupings from single units to combinations of three units wide and three units high.

**MULL CASING**—Seven lengths of outside mull casings to extend from head brick mold to sub sill for all unit groupings from single units with 14" glass through three units high with 22" glass.

**SUB SILL** (Awning and Hopper)—Eleven lengths of sub sill for awning and hopper use from single 28" glass units through triple combinations of units with 44" glass.

**SUB SILL** (For Casements)—Six lengths of sub sills for casement use from single unit with 14" glass through twin opening with 22" glass and for triple casement combinations using side casement units and center picture unit. (The picture unit lengths are also used for combinations of casements up to four wide with 22" glass.)

**TRANSOM BAR DRIP**—Outside transom bar drip in four lengths to fit between side brick molds or mull casings. By extending mulls through, the fitting of trim is simplified and lengths of outside casings are greatly reduced.

Available in bundles—12 pieces to a bundle cut to approximate lengths. EX-JAMBS—1 1/16 x 7/8 (are used for walls up to 5 1/4" thick) available in random lengths for all unit groupings from single units up to combinations of three units wide and three units high. (Clear Ponderosa Pine)

**INSIDE MULL AND TRANSOM BAR CASINGS**—Not available. S4S material can be used as indicated by details. Stools and casings—not available. Use standard designs. Usually a stock stool can be used by reducing width since stool rabbet is hidden.

## SPECIFICATIONS

**MATERIALS:** Units and exterior trim Ponderosa Pine, water-repellent preservative treated to NWMA Standards. Jamb width 4 3/8" thick.

**GLAZING:** Sash clamp glazed with SS or (IG) insulating glass. Removable for reglazing. Storm panels with aluminum surrounds and hardware are available for all except Picture Units glazed (IG) insulating glass.

**WEATHERSTRIP:** Sash completely weatherstripped with anodized special alloy aluminum.

**HARDWARE:** Friction slide hinges are installed on all operating units. The Releasable Bar Operator, Jointed Bar Operator, or Gear Operator are available as accessories. Each comes packed with screws and installation instructions, wood sill covers for gear and lever operators must be ordered separately to fit window openings.

**PICTURE UNITS:** Assembled, with frame, weather-stripped sash glazed with 1/2" DSA insulating glass or regular glass.

**AWNING STORM PANELS:** Specify size. For units glazed with SS and DS glass.

**SCREENS:** Screens shall be (a) clear kiln-dried Ponderosa Pine water-repellent preservative treated and shall include necessary hangers and locks. (b) Gold-Tone aluminum frame with hangers and locks. All screens shall be Alclad Aluminum 18/14 wire cloth with gun-metal finish.

**TRIM:** Bundled—not carton packed. Specify size.



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